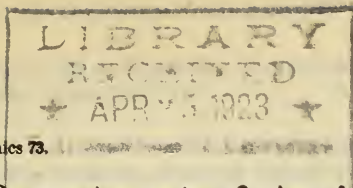


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United States Department of Agriculture.

BUREAU OF AGRICULTURAL ECONOMICS.

SERVICE AND REGULATORY ANNOUNCEMENTS.

No. 73.¹

(Agricultural Economics.)

OFFICIAL GRAIN STANDARDS OF THE UNITED STATES FOR RYE.

MARCH 29, 1923.

Hon. HENRY C. WALLACE,
Secretary of Agriculture.

SIR: I have the honor to transmit herewith a draft of an order fixing, establishing, promulgating, and giving public notice of, the official grain standards of the United States for rye under the United States grain standards act of August 11, 1916 (39 U. S. Statutes at Large, p. 482). It is recommended that they be fixed, established, promulgated, and published as the official grain standards of the United States for rye pursuant to the authority conferred on you by said act, to be in force and effect on and after July 1, 1923, or until altered or modified hereafter by the Secretary of Agriculture, under the act.

It is desirable that the new standards become effective not later than July 1, 1923, in order that they may be applied as nearly as possible at the beginning of the new crop movement.

Very respectfully,

HENRY C. TAYLOR,
Chief, Bureau of Agricultural Economics.

Approved:
R. W. WILLIAMS,
Solicitor.

¹ Previous numbers in this series which relate to the United States grain standards Act are: Nos. 11 to 15, 17 to 19, 22 to 26, 29, 31 to 40, 42, 44 to 49, 52, 54 to 56, 58 to 60, 62 to 65, and 67.

ORDER ESTABLISHING OFFICIAL GRAIN STANDARDS OF THE UNITED STATES FOR RYE.

Pursuant to the authority vested in the Secretary of Agriculture by the United States grain standards act, approved August 11, 1916 (39 U. S. Statutes at Large, p. 482), I, C. W. Pugsley, Acting Secretary of Agriculture, do hereby fix, establish, promulgate, and give public notice of, standards of quality and condition for rye, as hereinafter described, which shall become effective on the first day of July, nineteen hundred and twenty-three.

OFFICIAL GRAIN STANDARDS OF THE UNITED STATES FOR RYE.

For the purpose of the official grain standards of the United States grades for rye:

SECTION 1. *Rye*.—Rye shall be any grain which before the removal of dockage consists of 50 per cent or more of rye, and when free from dockage contains not more than 10 per cent of cereal grain of a kind or kinds other than rye.

SEC. 2. *Basis of determination*.—Each determination of dockage, moisture, temperature, odor, onions, garlic, and live weevils or other insects injurious to stored grain shall be upon the basis of the grain including dockage. All other determinations shall be upon the basis of the grain when free from dockage.

SEC. 3. *Percentages*.—Percentages, except in the case of moisture, shall be percentages ascertained by weight.

SEC. 4. *Percentage of moisture*.—Percentage of moisture in rye shall be that ascertained by the moisture tester and the method of use thereof described in Circular 72, and supplement thereto, issued by the United States Department of Agriculture, Bureau of Plant Industry, or as determined by any device and method giving equivalent results.

SEC. 5. *Test weight per bushel*.—Test weight per bushel shall be the weight per Winchester bushel as determined by the testing apparatus and the method of use thereof described in Bulletin No. 472, dated October 30, 1916, issued by the United States Department of Agriculture, or as determined by any device and method giving equivalent results.

SEC. 6. *Cereal grains*.—Cereal grains shall include wheat, barley, emmer, spelt, einkorn, corn, grain sorghums, oats, and rice only, and shall not include non-grain sorghums, buckwheat, flaxseed, and wild oats.

SEC. 7. *Damaged kernels*.—Damaged kernels shall be all grains and pieces of grains of rye and other grains which are heat damaged, sprouted, frosted, badly ground damaged, badly weather damaged, or otherwise distinctly damaged.

SEC. 8. *Heat-damaged kernels*.—Heat-damaged kernels shall be kernels and pieces of kernels of rye and other grains which have been distinctly discolored by external heat or as a result of heating caused by fermentation.

NOTE.—Under regulations pursuant to the United States grain standards Act, licensed inspectors are required to state under "Remarks" in all certificates issued by them for rye, unless issued for an export shipment, the test weight per bushel in whole pounds and tenths of a pound.

SEC. 9. *Dockage*.—Dockage includes sand, dirt, weed seeds, weed stems, chaff, straw, grain other than rye, and any other foreign material, which can be removed readily from the rye by the use of appropriate sieves, cleaning devices, or other practical means suited to separate the foreign material present; also undeveloped, shriveled, and small pieces of rye kernels which are removed in properly separating the foreign material, and which can not be recovered by properly rescreening or recleaning.

The quantity of dockage shall be calculated in terms of percentage based on the total weight of the grain including the dockage. The percentage of dockage so calculated, when equal to 1 per cent or more, shall be stated in terms of whole per cent, and when less than 1 per cent shall not be stated. A fraction of a per cent shall be disregarded. The percentage of dockage, so determined and stated, shall be added to the grade designation.

SEC. 10. *Foreign material other than dockage*.—Foreign material other than dockage shall include all matter other than rye which is not separated from the rye in the proper determination of dockage.

SEC. 11. *Garlicky rye*.—Garlicky rye shall be all rye which has an unmistakable odor of garlic or wild onions or which contains garlic or wild-onion bulblets in a quantity equal to one or more bulblets in 1,000 grams of rye.

Garlicky rye shall be graded and designated according to the grade requirements of the standards applicable to such rye if it were not garlicky, and there shall be added to, and made a part of, the grade designation the word "garlicky."

SEC. 12. *Weevily rye*.—Weevily rye shall be all rye which is infested with live weevils or other insects injurious to stored grain.

Weevily rye shall be graded and designated according to the grade requirements of the standards applicable to such rye if it were not weevily, and there shall be added to, and made a part of, the grade designation the word "weevily."

SEC. 13. *Ergoty rye*.—Ergoty rye shall be all rye which, after the removal of dockage, contains ergot in excess of 0.3 per cent.

Ergoty rye shall be graded and designated according to the grade requirements of the standards applicable to such rye if it were not ergoty, and there shall be added to, and made a part of, the grade designation the word "ergoty."

SEC. 14. *Smutty rye*.—Smutty rye shall be any rye which has an unmistakable odor of smut, or which contains spores, balls, or portions of balls of smut, in excess of a quantity equal to two balls of average size in 50 grams of rye.

Smutty rye shall be graded and designated according to the grade requirements of the standards applicable to such rye if it were not smutty, and there shall be added to, and made a part of, the grade designation the word "smutty."

SEC. 15. *Grades*.—All rye shall be graded and designated No. 1, No. 2, No. 3, No. 4, or Sample Grade, as the case may be, according to the respective requirement thereof as specified in these standards.

No. 1.

- (a) Shall be cool and of natural odor;
- (b) Shall have a test weight per bushel of at least 56 pounds;
- (c) May contain not more than 13 per cent of moisture;

(d) May contain not more than 2 per cent of damaged kernels and no heat-damaged kernels; and

(e) May contain not more than 3 per cent of foreign material other than dockage, which 3 per cent may include not more than 1 per cent of foreign matter other than wheat.

NO. 2.

(a) Shall be cool and of natural odor;

(b) Shall have a test weight per bushel of at least 54 pounds;

(c) May contain not more than 14 per cent of moisture;

(d) May contain not more than 4 per cent of damaged kernels and no heat-damaged kernels; and

(e) May contain not more than 6 per cent of foreign material other than dockage, which 6 per cent may include not more than 2 per cent of matter other than wheat.

NO. 3.

(a) shall be cool and of natural odor;

(b) shall have test weight per bushel of at least 52 pounds;

(c) may contain not more than 15 per cent of moisture;

(d) may contain not more than 7 per cent of damaged kernels, which may include not more than .5 per cent of heat-damaged kernels; and

(e) may contain not more than 10 per cent of foreign material other than dockage, which 10 per cent may include not more than 4 per cent of matter other than wheat.

NO. 4.

(a) shall be cool and may be musty or slightly sour;

(b) shall have a test weight per bushel of at least 49 pounds;

(c) may contain not more than 16 per cent of moisture;

(d) may contain not more than 15 per cent of damaged kernels, which may include not more than 3 per cent of heat-damaged kernels; and

(e) may contain not more than 10 per cent of foreign matter other than dockage, which 10 per cent may include not more than 6 per cent of matter other than wheat.

SAMPLE GRADE.

Sample grade rye shall be all rye which does not come within any of the grades from Nos. 1 to 4, inclusive, or which has any commercially objectionable foreign odor except of smut, garlic, or wild onions, or is very sour, or is heating, hot, or otherwise of distinctly low quality, or contains small, inseparable stones or cinders.

In testimony whereof I have hereunto set my hand and caused the official seal of the Department of Agriculture to be affixed in the city of Washington this twenty-ninth day of March, nineteen hundred and twenty-three.



C. W. PUGSLEY,
Acting Secretary of Agriculture.

APPENDIX.

Tabulation of grade requirements for rye, garlicky, weevily, ergoty, and smutty rye.

[Section 15, tabulated and abridged.]

Grade.	Condition.	Mini- mum test weight per bushel.	Maximum limits of—				
			Moisture.	Damaged kernels.		Foreign material other than dock- age.	
				Total (rye and other grains).	Heat- damaged (rye and other grains).	Total	Foreign matter other than wheat.
		<i>Pounds.</i>	<i>Per cent.</i>	<i>Per cent.</i>	<i>Per cent.</i>	<i>Per cent.</i>	<i>Per cent.</i>
1	Shall be cool and of natural odor..	56	13	2	0.	3	1
2	Shall be cool and of natural odor..	54	14	4	0.	6	2
3	Shall be cool and of natural odor..	52	15	7	0.5	10	4
4	Shall be cool and may be musty or slightly sour.....	49	16	15	3.0	10	6

Sample grade.—Sample grade rye shall be all rye which does not come within any of the grades from Nos. 1 to 4, inclusive, or which has any commercially objectionable foreign odor except of smut, garlic, or wild onions, or is very sour, or is heating, hot, or otherwise of distinctly low quality, or contains small, inseparable stones or cinders.

